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Halliburton NUS CORPORATION

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February 3, 1994

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Mr. Mark Gibson
EG&G Rocky Flats, Inc.
Rocky Flats Plant
Building 080
P.O. Box 464
Golden, Colorado 80402-0464

SUBJECT: SUBCONTRACT PC 84017JB ROCKY FLATS SOLAR POND/PONDCRETE PROJECT
[WBS 710 PROJECT MANAGEMENT - HALLIBURTON NUS ROCKY FLATS DENVER]
RESPONSE TO ADDITIONAL FACTFIND QUESTIONS
RF-HED-94-0033

Dear Mr. Gibson:

The following is in response to your letter MDG-046-94 of February 2, 1994 requesting the basis of estimate and details of calculations for the Three Cell Averaging Tanks (430-S-16, 17 and 18), and Two Cell Batch Tanks (430-S-20, 21, 22 and 23).

1. Three Cell Averaging Tanks (Table 2.2A) Cost = \$2,034
Under Alternate 2, \$1,034 is the rental cost for 2 months duration during the reverse modification process. The estimated costs of labor/materials is \$1,000.
2. Two Cell Batch Tanks (Table 2.2B) Cost = \$3,378
Under Alternate 2, \$1,378 is the rental cost for 2 months duration during the reverse modification process. The estimated cost of labor/materials is \$2,000.

The labor/material value is based upon a \$3,000 total estimate from Halliburton Energy Services. This \$3,000 figure was allocated between the batch/averaging tanks based upon pieces of equipment to reverse modify (ie: Batch - 2 each; Averaging - 3 each).

Attached are copies of the spreadsheets which were submitted to EG&G January 19, 1994 (RF-HED-94-0018) with the above mentioned figures circled.

If you have any further questions or comments, please contact me.

Sincerely,

HALLIBURTON NUS CORPORATION

Roger Hiss
Administrative Manager

RAH/tw

Enclosures

cc: T. ~~Bittner~~
T. Bittner

A:HISS/GIBSON.001
RF-HED-94-0033

ADMIN RECCRD

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**Alternative Cost Analysis
Rocky Flats Solar Ponds Project**

Revision 1

430-S-(20, 21, 22, 23)
2 Each Two Cell Batch Tanks

Table 2.2B

DESCRIPTION	BASE CASE		ALTERNATE 1		ALTERNATE 2		COMMENTS
	Contract Basis		Buyout Option		Modified Service Option		
Rocky Flats Site Cost							
Diamanling @ 904	\$21,566		0		\$7,667		Contract Basis from 10-25-93 Proposal Alternate 2 Estimate is new estimate
Scheduled Date Offsite	12-20-93		12-01-93		12-03-93		
Additional Rental Costs	2 mos. \$5,512		0		\$1,378		Base Case allows 2 month duration for reverse modification in Duncan.
Demob Freight Costs			0				
Duncan Costs							
Reverse Modification	\$17,200		N/A		\$2,000		
Buyout Costs	N/A		\$39,264		N/A		
SUBTOTAL	\$44,278		\$39,264		\$11,045		
FUNDING REQUIREMENT (outside Mod 26)	\$22,712		\$39,264		\$3,378		Funding Requirement for Base Case and Alternate 2 includes additional rental and reverse modification costs.
Comparison of costs	\$44,278		\$39,264		\$11,045		
HNUS overhead (18.96%)	\$8,395		\$7,444		\$2,094		Note: Purchase of the two pairs of Halliburton Services Batch Tanks by EG&G is warranted to support future pondsludge processing activities. Treatability testing has proven that to produce a certifiable cement-stabilized 207C Pond waste form requires that the waste not only be well-mixed, but must be within specific total dissolved solids (TDS) and total suspended solids (TSS) boundaries. Assuming placement of the 207 C Pond waste in 10,000 gallon polyethylene tanks, and that preliminary sampling of the contents of each tank is possible, then the initial three Halliburton Services Averaging tanks will not be required for processing. However, batch-wise homogenization, sampling, and TDS/TSS adjustment must still be performed on the waste prior to mixing with pozzolan. The paired Batch Tank system is specifically designed to perform these functions on a volume of material consistent with RCM operation. While a single pair of Batch Tanks is sufficient for operation, the need for both pairs, to reduce lost labor hours during filling, mixing, sampling and adjustment is still valid.
HNUS G&A (10.42%)	\$5,488		\$4,867		\$1,369		
HNUS Fee (8.5%)	\$4,944		\$4,384		\$1,233		
Total	\$63,105		\$55,959		\$15,741		

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Attachment 1
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Alternative Cost Analysis Rocky Flats Solar Ponds Project					Revision 1
Equipment Tag # _____ Equipment Description		430-S-(16, 17, 18) Three Cell Averaging Tanks			
Table 2.2A					
DESCRIPTION	BASE CASE	ALTERNATE 1	ALTERNATE2	COMMENTS	
	Contract Basis	Buyout Option	Modified Service Option		
Rocky Flats Site Cost					
Dismantling @ 904	\$34,505	0	\$3,833	Contract Basis from 10-25-93 Proposal Alternate 2 Estimate is new estimate	
Scheduled Date Offsite	12-20-93	12-01-93	12-03-93		
Additional Rental Costs	2 moa. \$4,134	0	\$1,034	Base Case allows 2 month duration for reverse modification in Duncan.	
Demob Freight Costs		0			
<u>Duncan Costs</u>					
Reverse Modification	\$12,900	N/A	\$1,000		
Buyout Costs	N/A	\$29,448	N/A		
SUBTOTAL					
FUNDING REQUIREMENT (outside Mod 26)	\$51,539	\$29,448	\$5,867	Funding Requirement for Base Case and Alternate 2 includes additional rental and reverse modification costs.	
Comparison of costs	\$17,034	\$29,448	\$2,034		
HNUS overhead (18.96%)	\$51,539	\$29,448	\$5,687		
HNUS G&A (10.42%)	\$9,772	\$5,583	\$1,112		
HNUS Fee (8.5%)	\$6,389	\$3,650	\$727		
	\$5,755	\$3,288	\$655		
Total	\$73,455	\$41,969	\$8,361		

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A.130 MW DAILY COST 2.2A

attachment 1
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